



TGW  
PATENT APPLICATION  
CS-8689  
BCS033014

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICATION OF )  
REINER FISCHER ET AL ) GROUP NO.: 1616  
)  
SERIAL NUMBER: 10/559,703 )  
)  
FILED: DECEMBER 7, 2005 )  
)  
TITLE: N-HETEROCYCLYLPHENYL- )  
SUBSTITUTED CYCLIC )  
KETOENOLS )

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This disclosure statement under 37 CFR 1.97 & 1.98 is submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements. Copies of the foreign documents and articles listed on the attached Form PTO-1449 are enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an enveloped addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on 6/26/06

Date

Richard E.L. Henderson, Reg. No. 31,619

Name of applicant, assignee or Registered Representative

Richard E.L. Henderson

Signature

June 26, 2006

Date

Concise statements of the presently understood relevance of each of the documents are found in the specification filed.

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, that any document mentioned herein constitutes prior art, or that the documents listed severally or in any combination with one another or with any other information, are believed to render any claim in the subject application *prima facie* unpatentable.

Respectfully submitted,

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Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	JUN 28 2006	Atty. Docket No. 658689/BCS033014	Serial No. 10/559,703
<b>LIST OF PRIOR ART CITED BY APPLICANT</b> (Use Several Sheets If Necessary)		Applicant Reiner Fischer et al		
		Filing Date December 07, 2005		Group No. 1616

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,542,809	11/24/70	(Bel. to corresp. to DE Nakanishi	19 45 703) 260	332.2	
	AB	**3,644,409	02/22/72	Felder et al	260	247.2	
	AC	4,021,224	05/03/77	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	88	
	AD	4,104,043	08/01/78	(Bel. to corresp. to DE Durden, Jr. et al	23 61 084) 71	107	
	AE	4,137,070	01/30/79	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	100	
	AF	4,175,135	11/20/79	Haines	424	311	
	AG	4,186,130	01/29/80	(Bel. to corresp. to DE Teach	23 50 547) 548	215	
	AH	4,209,423	06/24/80	Hutchings et al	252	435	
	AI	4,243,811	01/06/81	(Bel. to corresp. to DE Teach	23 50 547) 548	215	
	AJ	4,256,657	03/17/81	(Bel. to corresp. to DE Wheeler	28 13 341) 260	465 D	
	AK	4,256,658	03/17/81	(Bel. to corresp. to DE Wheeler	28 13 341) 260	465 D	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL	2 497 074	03/25/04	(Bel. to corresp. to DE 10 239 479) Canada				
	AM	346 620 A1	12/20/89	Europe (Abstract attached)				X
	AN	2000-53670	02/22/00	Japan (Abstract attached)				X
	AO	442 077 B1	11/08/95	Europe (Abstract attached)				X
	AP	2 266 888 A	11/17/93	Great Britain				

**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

AR	Chem. Pharm. Bull., vol. 15, (month unavailable) 1967, pages 1120-1122, Seikichi Suzuki et al,
	"Studies on Antiviral Agents. IV. Biological Activity of Tenuazonic Acid Derivatives"
AS	Liebigs Ann. Chem., (month unavailable) 1985, pages 1095-1098, Roland Schmierer et al,
	"Cyclisierung von N-Acylalanin- und N-Acylglycinestern"
AT	J. Chem. Soc. Perkin Trans. I (month unavailable) 1985, pages 1567-1576, Alexander C. Campbell
	et al, "Synthesis of (E)- and (Z)-Pulvinones"

EXAMINER	DATE CONSIDERED
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				Filing Date December 07, 2005	Group No. 1616	

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,256,659	03/17/81	(Bel. to corresp. to DE Wheeler	28 13 341) 260	465 D	
	AB	4,257,858	03/24/81	(Bel. to corresp. to DE Wheeler	28 13 341) 204	158 R	
	AC	4,269,618	05/26/81	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	88	
	AD	4,283,348	08/11/81	Wheeler	260	465 D	
	AE	4,303,669	12/01/81	D'Silva	424	282	
	AF	4,338,122	07/06/82	Wheeler	71	122	
	AG	4,351,666	09/28/82	Koerwer	71	106	
	AH	4,409,153	10/11/83	Hodakowski	260	946	
	AI	4,415,352	11/15/83	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	88	
	AJ	4,415,353	11/15/83	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	100	
	AK	4,422,870	12/27/83	(Bel. to corresp. to DE Wheeler	28 13 341) 71	106	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL	03/028446 A2	04/10/03	World				
	AM	2,199,636	04/25/96	(Bel. to corresp. to WO 96/11574) Canada				
	AN	2 492 096	01/22/04	(Bel. to corresp. to DE 10 231 333) Canada				
	AO	2,210,286	07/18/96	(Bel. to corresp. to WO 96/21652) Canada				
	AP	01/17351 A1	03/15/01	World				

**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

AR	Arch Pharm 309, (month unavailable) 1976, pages 558-564, Ali M. Chirazi et al, "Synthesen von
	Heterocyclen, 184, Zur Synthese von Kawalactonderivaten"
AS	Chem. Ber., 91, (month unavailable) 1958, page 2849, Karl-Heniz Boltze et al, "Ringschlüsse mit
	Malonsäure-dichloriden"
AT	Monatsh, 95, (month unavailable) 1964, pages 147-155, E. Ziegler et al, "Synthesen von
	Heterocyclen, 52. Mitt."

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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,436,666	03/13/84	Wheeler	260	455 B	
	AB	4,526,723	07/02/85	Wheeler et al	260	410.5	
	AC	4,551,547	11/05/85	Wheeler	560	255	
	AD	4,613,617	09/23/86	Sousa	514	521	
	AE	4,632,698	12/30/86	Wheeler	71	106	
	AF	4,623,727	11/18/86	(Bel. to corresp. to EP Hübele	86 750) 546	176	
	AG	4,639,266	01/27/87	(Bel. to corresp. to EP Heubach et al	174 562) 71	92	
	AH	4,659,372	04/21/87	(Bel. to corresp. to DE Wheeler	28 13 341) 71	106	
	AI	4,708,735	11/24/87	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	118	
	AJ	4,758,264	07/19/88	(Bel. to corresp. to EP Hubele	86 750) 71	94	
	AK	4,785,105	11/15/88	(Bel. to corresp. to EP Hubele	86 750) 546	178	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL	96/02539	02/01/96	World				X
	AM	**01/17973	03/15/01	World				
	AN	**99/43649	09/02/99	World				
	AO	**01/09092	02/08/01	World				
	AP	**101 39 465	02/20/03	Germany				

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AR	H. Heterocycl. Chem., 10, April 1973, pages 223-224, Roger Ketcham et al, "Synthesis of Heterocycles. 174 (1.2) Substituted Thiazines and Bisthiazinyls from Dithiooxamide and Trichlorophenyl Malonates"
	Tetrahedron, vol. 48, no. 36, (month unavailable) 1992, pages 7519-7526, Jason Micklefield et al, "Alkylation and Acylation of 5-Penylsulphonyl- and 5-Cyanobutyrolactones"
AS	J. Chem. Soc. (C), (month unavailable) 1967, pages 405-409, R.L. Edwards et al, "Constituents of the Higher Fungi. Part IV. Involutin, a Diphenylcyclopenteneone from Paxillus involutus (Oeder ex Fries)"
AT	

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	AA	4,785,106	11/15/88	(Bel. to corresp. to EP Hubele	86 750) 546	178	
	AB	4,822,884	04/18/89	(Bel. to corresp. to EP Hubele	86 750) 546	177	
	AC	4,851,033	07/25/89	(Bel. to corresp. to EP Hubele	86 750) 71	94	
	AD	4,881,966	11/21/89	(Bel. to corresp. to EP Nyffeler et al	191 736) 71	94	
	AE	4,891,057	01/02/90	(Bel. to corresp. to EP Sohn et al	269 806) 71	72	
	AF	4,902,340	02/20/90	(Bel. to corresp. to EP Hubele	94 349) 71	94	
	AG	4,925,868	05/15/90	(Bel. to corresp. to EP Terao et al	262 399) 514	425	
	AH	4,971,618	11/20/90	(Bel. to corresp. to DE Pallos et al	22 18 097) 71	93	
	AI	4,985,063	01/15/91	(Bel. to corresp. to EP Fischer et al	355 599) 71	88	
	AJ	5,023,333	06/11/91	(Bel. to corresp. to EP Hubele	94 349) 546	175	
	AK	5,045,107	09/03/91	(Bel. to corresp. to EP Hubele	86 750) 71	94	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL	**99/55673	11/04/99	World				
	AM							
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AR	Journal of Economic Entomology, 66, (month unavailable) 1973, pages 584-586, A.A. Sousa et al,
	"Esters of 3-Hydroxy-2-Arylindones, a New Class of Acaricide"
AS	J. Org. Chem., Vol. 44, No. 26, (month unavailable) 1979, pages 4906-4912, Thomas N. Wheeler,
	"Novel Photochemical Synthesis of 2-Aryl-1,3-cyclohexanedi ones"
AT	Chemical Reviews, 52, (month unavailable) 1953, pages 237-416, Norman O.V. Sonntag, "The
	Reactions of Aliphatic Acid Chlorides"

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,045,560	09/03/91	(Bel. to corresp. to EP Fischer et al	377 893) 514	425	
	AB	5,082,949	01/21/92	(Bel. to corresp. to EP Sohn et al	269 806) 548	378	
	AC	5,091,537	02/25/92	(Bel. to corresp. to EP Fischer et al	355 599) 546	226	
	AD	5,094,681	03/10/92	(Bel. to corresp. to DE Krämer et al	40 14 420) 71	88	
	AE	5,102,445	04/07/92	(Bel. to corresp. to EP Hubele	94 349) 71	94	
	AF	5,116,836	05/26/92	(Bel. to corresp. to EP Fischer et al	415 211) 514	224.2	
	AG	5,142,065	08/25/92	(Bel. to corresp. to EP Fischer et al	355 599) 548	533	
	AH	5,186,737	02/16/93	(Bel. to corresp. to EP Fischer et al	377 893) 504	283	
	AI	5,207,817	05/04/93	(Bel. to corresp. to DE Krämer et al	40 14 420) 504	299	
	AJ	5,258,527	11/02/93	(Bel. to corresp. to EP Krauskopf et al	456 063) 548	543	
	AK	5,262,383	11/16/93	(Bel. to corresp. to EP Fischer et al	528 156) 504	195	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
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**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Indian J. Chem., Vol. 6, July 1968, pages 341-345, Bhabatosh Bhattacharya, "Isoquinoline Derivatives: Part XVIII-Formation of I-Alkyl-(or alkaryl or aryl)-3-methyl-7-chloro-(or 5-chloro)-isoquinolines"					
	AS	Chem. Ind., (London) November 9, 1968, page 1568, H.R. Harrison et al, "Use of molecular sieves in the methyl esterification of carboxylic acids"					
	AT	Schotten-Baumann, Organikum, VEB Deutscher Verlag der Wissenschaften, Berlin (month unavailable) 1977, page 505, "Reaktionen von Carbonsäuren und Carbonsäurderivaten mit Basen"					

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,314,863	05/24/94	(Bel. to corresp. to WO Löher et al	91/08202) 504	100	
	AB	5,332,720	07/26/94	(Bel. to corresp. to EP Krüger et al	508 126) 504	281	
	AC	5,358,924	10/25/94	(Bel. to corresp. to EP Krüger et al	508 126) 504	197	
	AD	5,380,852	01/10/95	(Bel. to corresp. to EP Schütze et al	492 366) 546	174	
	AE	5,401,700	03/28/95	(Bel. to corresp. to EP Sohn et al	333 131) 504	106	
	AF	5,407,897	04/18/95	(Bel. to corresp. to EP Cary et al	613 618) 504	108	
	AG	5,462,913	10/31/95	(Bel. to corresp. to EP Fischer et al	596 298) 504	138	
	AH	5,474,974	12/12/95	(Bel. to corresp. to EP Krüger et al	508 126) 504	236	
	AI	5,494,890	02/27/96	(Bel. to corresp. to WO Cederbaum et al	92/16510) 504	281	
	AJ	5,504,057	04/02/96	(Bel. to corresp. to EP Fischer et al	613 884) 504	283	
	AK	5,506,193	04/09/96	(Bel. to corresp. to WO Cederbaum et al	92/16510) 504	282	

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							Yes	No*
	AL							
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	AR	Houben-Weyl, Methoden der Organischen Chemie [Methods of Organic Chemistry], Vol. 8, (month unavailable) 1952, pages 467-469, H. Henecka, "Isoanthraflavinsaure; Morpholchinon"
		Ann. Chim., (Paris) [14], 5, (month unavailable) 1970, pages 11-22, P.L. Compagnon et
	AS	M. Miocque, "Addition Des Réactifs Nucléophiles Sur La Triple Liaison Nitrile, I. - Addition Des Hydrures, De L'eau, De L'hydrogène Sulfuré Et De L'hydrogène Sélenié"
		Ann. Chim, (Paris) [14], 5, (month unavailable) 1970, pages 23-38, P.L. Compagnon et
	AT	M. Miocque, "Addition Des Réactifs Nucléophiles Sur La Triple Liaison Nitrile, II. - Addition Des Alcools, Des Composés Azotés, Des Organométalliques; Condensation De Plusieurs Molécules De Nitriles"
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	AA	5,516,750	05/14/96	(Bel. to corresp. to WO Willms et al	95/07897) 504	106	
	AB	5,516,918	05/14/96	(Bel. to corresp. to EP Cary et al	613 618) 549	23	
	AC	5,567,671	10/22/96	(Bel. to corresp. to EP Fischer et al	613 885) 504	283	
	AD	5,589,469	12/31/96	(Bel. to corresp. to EP Fischer et al	521 334) 514	91	
	AE	5,602,078	02/11/97	(Bel. to corresp. to EP Fischer et al	613 884) 504	283	
	AF	5,610,122	03/11/97	(Bel. to corresp. to EP Fischer et al	647 637) 504	251	
	AG	5,616,536	04/01/97	(Bel. to corresp. to EP Fischer et al	521 334) 504	225	
	AH	5,622,917	04/22/97	(Bel. to corresp. to EP Fischer et al	668 267) 504	283	
	AI	5,661,110	08/26/97	(Bel. to corresp. to EP Krüger et al	508 126) 504	281	
	AJ	5,677,449	10/14/97	(Bel. to corresp. to EP Fischer et al	596 298) 544	165	
	AK	5,696,050	12/09/97	(Bel. to corresp. to EP Cary et al	613 618) 5k04	106	

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	AR	J. Chem. Soc., (month unavailable) 1961, pages 4372-4379, L. Munday, "Amino-acids of the Cyclohexane Series. Part I."
		Can. J. Chem., Vol. 53, (month unavailable) 1975, pages 3339-3350, John T. Edwards et al, "Stereochemistry of the Bucherer-Bergs and Strecker Reactions of 4- <i>tert</i> -Butylcyclohexanone"
	AS	J. Am. Chem. Soc. Vol. 123, No. 31, (month unavailable) 2001, pages 7727-7729,
		Artis Klapars et al, "A General and Efficient Copper Catalyst for the Amidation of Aryl Halides and the N-Arylation of Nitrogen Heterocycles"
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	AA	5,700,758	12/23/97	(Bel. to corresp. to WO Rösch et al	91/07874) 504	106	
	AB	5,703,008	12/30/97	(Bel. to corresp. to WO Rösch et al	91/07874) 504	106	
	AC	5,719,310	02/17/98	(Bel. to corresp. to EP Fischer et al	647 637) 560	83	
	AD	5,739,079	04/14/98	(Bel. to corresp. to EP Holdgrün et al	582 198) 504	103	
	AE	5,739,389	04/14/98	(Bel. to corresp. to EP Krüger et al	508 126) 562	489	
	AF	5,780,394	07/14/98	(Bel. to corresp. to EP Krüger et al	508 126) 504	281	
	AG	5,808,135	09/15/98	(Bel. to corresp. to WO Fischer et al	96/03366) 560	129	
	AH	5,830,825	11/03/98	(Bel. to corresp. to WO Fischer et al	96/20196) 504	130	
	AI	5,830,826	11/03/98	(Bel. to corresp. to WO Fischer et al	95/26954) 504	195	
	AJ	5,847,211	12/08/98	(Bel. to corresp. to EP Fischer et al	668 267) 564	123	
	AK	5,922,732	07/13/99	(Bel. to corresp. to WO Urch et al	06/37494) 514	304	

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	AL							
	AM							
	AN							
	AO							
	AP							

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

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Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office <b>LIST OF PRIOR ART CITED BY APPLICANT</b> (Use Several Sheets If Necessary)	Atty. Docket No. CS8689/BCS033014	Serial No. 10/559,703
		Applicant Reiner Fischer et al	
		Filing Date December 07, 2005	Group No. 1616

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	AE	5,981,567	11/09/99	(Bel. to corresp. to WO Fischer et al	95/01358) 514	409	
	AF	5,994,274	11/30/99	(Bel. to corresp. to WO Fischer et al	97/02243) 504	282	
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	AC	6,150,304	11/21/00	(Bel. to corresp. to WO Fischer et al	96/10798) 504	309	
	AD	6,172,255 B1	01/09/01	(Bel. to corresp. to WO Fischer et al	95/26954) 560	24	
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	AH	6,207,676 B1	03/27/01	(Bel. to corresp. to WO Urch et al	96/37494) 514	304	
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	AJ	6,759,548 B2	07/06/04	(Bel. to corresp. to WO Fischer et al	97/02243) 560	81	
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